



Anne Arundel County Police Department
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Timothy J. Altomare
Chief of Police

Forensic Services Section Forensic Biology Report

Case Type: Homicide Investigation
Lab Case Number: AA0194-18
Police Case Number: 18-724601
Report Date: May 30, 2019
Report 2.

Analyst: Sarah Chenoweth, M.S.
Case Officer: Det. Dipietro #1249
Attention: Evidence Collection Unit
Offense Date: June 28, 2018
Case Names: Jarrod Ramos (Suspect)
Rebecca Smith (Deceased Victim)
Wendy Winters (Deceased Victim)
Robert Hiaasen (Deceased Victim)
Gerald Fischman (Deceased Victim)
John McNamara (Deceased Victim)
Rachael Pacella (Victim)
Janel Cooley (Victim)
Phil Davis (Victim)
Jay Judge (Victim)

The following items were submitted:

Item #	Description
AE-009	Mailing envelope and numerous copies of cover letter and motion for reconsideration Tested a portion of the envelope seal.
AE-009.01	Motion for reconsideration
AE-009.02	Cover letter
AE-009.03	Cover letter
AE-009.04	Cover letter
AE-010	Letter to Charles Moylan Jr. signed by Jarrod Ramos with mailing envelope Tested the seal of the envelope and the letter separately.
AE-011	Letter and motion to Bob Douglas signed by Jarrod Ramos with mailing envelope Tested the seal of the envelope and the letter separately.
AE-053	Swab from Phone S - Receiver
AE-054	Swab from Phone S - Buttons
AE-104	Greeting card sent in mail to Eric Hartley with mailing envelope. Tested the seal of the envelope.
CS1-046.03	Typed note from inside of the pistol grip of the shotgun.

Conclusions:

AE-009.01: Motion for reconsideration

A partial mixture of DNA (4 out of 22 loci) from at least two contributors was obtained from this sample. This mixture is uninterpretable.

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AE-009.02: Cover letter

A partial DNA profile (5 out of 22 loci) was obtained from this sample. This profile is uninterpretable.

AE-009.03: Cover letter

AE-009.04: Cover letter

An insufficient number of alleles were obtained for interpretation.

AE-009: Envelope (seal)

A partial DNA profile (18 out of 22 loci) was obtained from this sample. This profile is consistent with the known DNA profile of Jarrod Ramos. Assuming a single contributor, the probability of randomly selecting an unrelated individual who would be included as the contributor of this DNA profile is approximately 1 in 8.0 trillion (10^{32}) in the combined population.

Rebecca Smith, Wendy Winters, Robert Hiaasen, Gerald Fischman, and John McNamara are excluded as the source of this DNA.

AE-010: Letter to Charles Moylan Jr. signed by Jarrod Ramos with mailing envelope

Letter:

A mixture of DNA from at least two contributors was obtained from this sample. The major contributor is an unidentified male. Jarrod Ramos, Rebecca Smith, Wendy Winters, Robert Hiaasen, Gerald Fischman, and John McNamara are excluded as the major contributor. The minor component is uninterpretable.

Envelope (seal):

A mixture of DNA from at least two contributors was obtained from this sample. The major component of this mixture matches the known DNA profile of Jarrod Ramos at 21 out of 22 loci. The probability of randomly selecting an unrelated individual who would be included as the contributor of this DNA profile is approximately 1 in 380 nonillion (10^{30}) in the combined population.

Rebecca Smith, Wendy Winters, Robert Hiaasen, Gerald Fischman, and John McNamara, are excluded as the major contributor. The minor component is uninterpretable.

AE-011: Letter to Bob Douglas signed by Jarrod Ramos with mailing envelope

Letter and motion:

A partial mixture of DNA (15 out of 22 loci) from at least two contributors was obtained from this sample. This mixture is uninterpretable.

Envelope (seal):

A partial mixture of DNA (21 out of 22 loci) from at least two contributors was obtained from this sample. The major component is consistent with the known DNA profile of

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Jarrod Ramos. The probability of randomly selecting an unrelated individual who would be included as the contributor of this DNA profile is approximately 1 in 690 septillion (10^{24}) in the combined population.

Rebecca Smith, Wendy Winters, Robert Hiaasen, Gerald Fischman, and John McNamara are excluded as the major contributor. The minor component is uninterpretable.

AE-053: Swab from Phone S - Receiver

A partial mixture of DNA (11 out of 22 loci) from at least two contributors was obtained from this sample. This mixture is uninterpretable.

AE-054: Swab from Phone S - Buttons

A partial mixture of DNA (15 out of 22 loci) from at least three contributors was obtained from this sample. This mixture is uninterpretable.

AE-104: Greeting card sent in mail to Eric Hartley (envelope seal)

The DNA profile obtained from this sample matches the known DNA profile of Jarrod Ramos. The probability of randomly selecting an unrelated individual who would be included as the contributor of this DNA profile is approximately 1 in 1.9 decillion (10^{33}) in the combined population.

Rebecca Smith, Wendy Winters, Robert Hiaasen, Gerald Fischman, and John McNamara are excluded as the source of this DNA.

CS1-046.03: Typed note from inside of the pistol grip of the shotgun

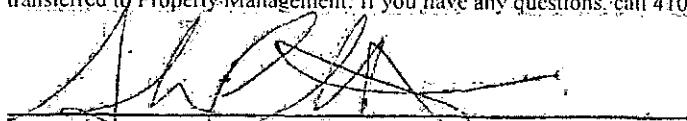
A partial DNA profile (4 out of 22 loci) was obtained from this sample. This profile is uninterpretable.

I certify this report is an accurate record of the results of the above examination(s) conducted by me as an employee of, and in a laboratory operated by, the Anne Arundel County Police Department, and accredited by the ANSI National Accreditation Board (ANAB). The analysis of genetic loci has been validated according to the Federal Bureau of Investigation's Quality Assurance Standards for Forensic DNA Testing Laboratories.

DNA typing results were obtained using the PowerPlex Fusion 5C System, which is a polymerase chain reaction (PCR) based technology.

When a statistical calculation is performed, a list of the loci included in the calculation is included in the casefile.

The evidence is being retained in the Forensic Biology Unit pending retrieval by the Evidence Collection Unit or will be transferred to Property Management. If you have any questions, call 410-222-8534 (Forensic Biology Unit).


Sarah Chenoweth, M.S.
Sr. Forensic Chemist/DNA Technical Leader

Case No. C-02-CR-18-1515

- Plaintiffs/State
- Defendant's Exhibit
- Court's
- Joint

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